

THE UNIVERD STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME?

Cooperatibe Elebator Co.

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT (S) INDICATED IN THE SAID GOPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT (S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE VIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORSUNG IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OBST. THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, FIELD

'HMS Medalist'

In Testiment Marcest, I have hereunto set my hand and caused the seal of the Mant Anticty Frotection Office to be affixed at the City of Washington, D.C. this sixteenth day of May, in the year two thousand and eight.

Allest:

Pers-

Commissioner Plant Variety Protection Office Agricultural Marketing Service would to dehafer

viculture

REPRODUCE LOCALLY, Incl	ude form number and	date on all reproductions		Form Approved - OMB No. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE			The following statements are made in the Paperwork Reduction Act (PRA) of	accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and 1995.		
APPLICATION FOR PLANT \ (Instructions and information co	ARIETY PROTECTI	ON CERTIFICATE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF OWNER			2. TEMPORARY DESIGNATION OR	3. VARIETY NAME		
Cooperative Elevator Co.			EXPERIMENTAL NAME 01054	'HMS MEDALIST WILL		
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Code,	and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY		
7211 E. Michigan Ave.			989-453-4500	PVPO NUMBER		
Pigeon, MI 48755	•		6. FAX (include area code)	#200700330		
			989-453-3942	FILING DATE		
THE OWNER NAMED IS NOT A PERSON		8. IF INCORPORATED, GIVE	9. DATE OF INCORPORATION			
DRGANIZATION (corporation, partnership, associa	ation, etc.)	STATE OF INCORPORATION	11-15-1915	MAY 17, 2007		
Corporation		Michigan	11-13-1913	, , , ,		
0. NAME AND ADDRESS OF OWNER REPRESI	ENTATIVE(S) TO SE	RVE IN THIS APPLICATION, (First	person listed will receive all papers)	F FILING AND EXAMINATION FEES:		
Ron Shellenberger				\$ \$ 4,382.00		
ProVita, Inc.				R DATE 5/17/01		
P.O. Box 628				C CERTIFICATION FEE:		
Kuna, ID 83634				\$ 768.00 \		
	•			E DATE 4117/05		
TELEPHONE (Include area code)	12. FAX (Include	area code)	13. E-MAIL	D IIII		
208-463-7624	72.1701 (110.1200	208-442-6433		on@provita-inc.com		
, CROP KIND (Common Name)	16. FAMILY NAM			IN ANY TRANSGENES? (OPTIONAL)		
Dry Edible Bean		Leguminosae	YES X NO	and the second second		
. GENUS AND SPECIES NAME OF CROP	17. IS THE VARI	ETY A FIRST GENERATION HYBI		ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE REGULATE THE GENETICALLY MODIFIED PLANT FOR		
Phaseolus vulgaris	YES [X NO	COMMERICALIZATION.	INCOGENTE THE GENETICALET WOODINED FEART TOX		
. CHECK APPROPRIATE BOX FOR EACH A	TTACHMENT SUBM	ITTED	20. DOES THE OWNER SPECIF	Y THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF		
ollow instructions on reverse)			,	83(a) of the Plant Variety Protection Act)		
a. X Exhibit A. Origin and Breeding History	y of the Variety		YES (If "yes", answer ite	ms 21 and 22 below) X NO (if "no", go to item 23) DIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO		
b. X Exhibit B. Statement of Distinctness			NUMBER OF CLASSES?	SIT AIM GEED OF THIS VANIETY DE LIMITED AO TO		
c. X Exhibit C. Objective Description of Va	urlety		YES NO			
d. X Exhibit D. Additional Description of the	Variety (Optional)		IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED			
e. X Exhibit E. Statement of the Basis of the	ne Owner's Ownershij	p	22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?			
f. X Exhibit F. Declaration Regarding Dep	osit	· ·	YES NO			
g. X Voucher Sample (3,000 viable untreated that tissue culture will be deposited an			IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.			
g. X Filing and Examination Fee (\$4,382), r		, ,	FOUNDATION REG	SISTERED CERTIFIED		
ates" (Mail to the Plant Variety Protection Office)				(If additional explanation is necessary, please use the space indicated on the reverse.)		
. HAS THE VARIETY (INCLUDING ANY HA OM THIS VARIETY BEEN SOLD, DISPOSED HER COUNTRIES?				NY COMPONENT OF THE VARIETY PROTECTED BY HT (PLANT BREEDER'S RIGHT OR PATENT)?		
YES X NO			YES X NO			
YES, YOU MUST PROVIDE THE DATE OF FIR CH COUNTRY AND THE CIRCUMSTANCES. (F			IF YES, PLEASE GIVE COUNTI REFERENCE NUMBER. (Please of	RY, DATE OF FILING OR ISSUANCE AND ASSIGNED use space indicated on reverse.)		
The owners declare that a viable sample of ba a tuber propagated variety a tissue culture will be	sic seed of the varie	ty has been furnished with applicati	ion and will be replenished upon request in duration of the certificate.	accordance with such regulations as may be applicable, or		
	of this sexually reprod	uced or tuber propagated plant var		distinct, uniform, and stable as required in Section 42, and is		
Owner(s) is (are) informed that false representa			ties.			
NATURE OF OWNER	-		SIGNATURE OF OWNER	· · · · · · · · · · · · · · · · · · ·		
			The second of th			
tricia Anderson						
ME (Please print or type) atricia Anderson			NAME (Please print or type)			
ME (Please print or type) atricia Anderson PACITY OR TITLE	DATE		NAME (Please print or type) CAPACITY OR TITLE	DATE		

#200700330

GENIXAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice).

NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov Homepage: http://www.ams.

usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C. Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870.

http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability, and (4) the type and frequency of variants during reproduction and multiplication
- and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively; (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision
 - after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

See Explanation of Seed Sales

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing date sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Explanation of Seed Sales

Question #23 from ST-470 Form (first sales of seed) continued

The following sales were made for disposition as an integral part of a program of experimentation and testing to ascertain the characteristics of the variety as provided for under <u>Title II</u>, sec. 15 of the Plant Variety Protection Act.

Cooperative Elevator Co. has received exclusive marketing rights for pinto, black, and small red varieties in Michigan from AmeriSeed. This background information is important to understand when looking at the trialing conducted by Cooperative Elevator Company in Michigan and the trialing AmeriSeed, LLC. pursued in North Dakota.

AmeriSeed used two specific dealers in North Dakota to evaluate the navy bean '01054'. Central Valley Bean Cooperative was a company AmeriSeed already used for trialing their own varieties in North Dakota and sells a limited amount of navy beans in North Dakota. AmeriSeed also included ADM - Seedwest in the trialing process. ADM - Seedwest is probably the single largest user of navy bean seed in North Dakota and adaptability of this variety for this company was critical. Evaluations with the aforementioned producers were needed to provide data on the following two points: 1. adaptation to the growing regions and 2. advantage to the industry over the current varieties in use (Norstar, Navigator, Ensign, etc.). Some of the characteristics we looked for in these trials were yield, maturity, plant architecture, ease of harvest, direct harvestability, seed size, seed color, % grade out at receiving, and end use acceptability.

• In 2006 sales for research and evaluation of navy '01054' in North Dakota, were made to ADM - Seedwest and Central Valley Bean Company. These sales amounted to 103,399 lbs. for use in adaptability trials throughout North Dakota.

Cooperative Elevator Co. did their own evaluations of the variety throughout Michigan. They sought input from their growers on whether the variety was 1. adapted to the regions 2. whether the variety provided an advantage over current varieties being used by the industry and 3. whether this variety was suitable for direct harvest. In 2006 they did a large scale test of direct harvestability with a grower. In this test Cooperative Elevator sought out a grower that was already direct harvesting beans and had him try the 01054 in a direct harvest situation. The grower planted approximately 400 AC in several locations compared to standard varieties and provided Cooperative Elevator and ProVita

and ProVita with feedback on how the crop performed relative to varieties he had used in the past.

Cooperative Elevator was also interested in the canning results of this variety and did extensive canning trials including a commercial canning trial in 2005. They also used product in 2005 and 2006 to test end-use acceptability of the variety.

- In 2005 sales for research and evaluation of navy '01054' in Michigan, were made to Cooperative Elevator growers. These sales amounted to 3,700 lbs. for use in adaptability trials throughout Michigan.
- In 2006 sales for research and evaluation of navy '01054' in Michigan, were made to Cooperative Elevator growers. These sales amounted to 135,195 lbs. for use in adaptability trials throughout Michigan.

Exploitation of this variety will begin in 2007 under the name '01054' (unless named before then). After gathering information from the above trials we have concluded that '01054' is broadly adapted to North Dakota and Michigan and provides an advantage to the industry in yield, ease of harvest, end use acceptability, canning, and plant architecture. Upon starting the PVP process this variety is being named and sold commercially (exploited) throughout North Dakota, Michigan, and the United States.

Exhibit A Origin and Breeding History of Navy Bean 01054 1405 MCAUST'

In the greenhouse of the fall of 1996 a cross was made between navy bean variety 'Mayflower', as the female parent, and navy bean variety 'Avanti', as the male parent. Navy '01054' was derived from the progeny of this cross. Following is an outline of the selection, testing, and multiplication. The selection criteria were upright architecture for direct harvest, improved canning characteristics, broad scale adaptability for Michigan, North Dakota, Minnesota, and increased yield.

Fall 1996 Greenhouse 'Mayflower' X 'Avanti'

Year		Location	Generation	Plot #	Bulk lbs.	Single Plant Selections	
Spring 1	997	Greenhouse	1	GH97-870	.2	Delections	
Summer 1	997	Twin Falls, ID	2	97-966-5		7	
Summer 1	.998	Twin Falls, ID	3	98-1359-2		2	
Summer 1	.999	Twin Falls, ID	4	99-1208		1	
Summer 2	000	Twin Falls, ID	5	00-1234		1	
Summer 2	001	Twin Falls, ID	6	01-054	1.5	1	
Summer 2	002	Nampa, ID	7	02-7033	35		
Summer 2	:003	Nampa, ID	8	ND3881	500		
Summer 2	004		9	Seed inc	rease and	d testing.	
Daninic 2			9	Found to be	uniform	and stable.	
Summer 2	005	•	10	Seed inc	rease and	i testing.	
			10	Found to be uniform and stable.			
Summer 2	006		11			d testing.	
			<u> </u>	Found to be	uniform	and stable.	

By carefully evaluating seed stocks in the field on a plant by plant basis during the years 2004 through 2006 this new navy bean variety 01054 has been found to be uniform, stable, and free of any genetic variants since the F8 generation.

Dry Edible Navy Bean 11MS MEDALIST 101054

Exhibit B

Novelty Statement

The following charts show the differences between '01054' and 'Vista':

2007 '01054' vs 'Vista' T-Test Results

Characteristic	Units	101054	`Vista'	Probability	Sample size
Beak Length	mm	10.00	6.40	0.0000	20
Seeds/pod	no.	5.90	5.40	0.1527	20
Pod Length	mm	92.65	88.75	0.0503	20
Pod Depth	mm	7.93	7.73	0.0549	20
Pod Width	mm	10.00	9.78	0.0749	20

2008 '01054' vs 'Vista' T-Test Results

Characteristic	Units	1010541	'Vista'	Probability	Sample size
Beak Length	mm	11.10	7.18	0.0000	20
Seeds/pod	no.	5.35	5.55	0.4057	20
Pod Length	mm	87.45	87.10	0.7927	20
Pod Depth	mm	7.74	8.19	0.0000	20
Pod Width	mm	9.98	10.03	0.7398	20

'01054' is most like the navy variety 'Vista' but differs from 'Vista' in the following ways:

 Based on the above t-test results '01054' has a longer beak than 'Vista'. Averaging the means for 2007-2008 shows 01054's beak length to be 10.55 mm; compared to Vista's beak length at 6.79 mm.

2004 '01054' vs 'Seafarer' T-Test Results

Characteristic	Units	101054	'Seafarer'	Probability	Sample size
Maturity (90%)	days	91	77	NS	1
Flowering (50%)	days	52	43	NS	. 1
Plant Height	cm.	61	38	NS	1
Beak Length	mm.	9.10	5.10	0.0000	20
Vine Length	in.	35.00	15.75	0.0000	20
Seeds/pod	no.	5.45	4.15	0.0022	20
Seeds/lb.	no.	2,291	2,293	NS	1

2005 '01054' vs 'Seafarer' T-Test Results

Characteristic	Units	101054	'Seafarer'	Probability	Sample size
Maturity (90%)	days	104	92	NS	1
Flowering (50%)	days	54	44	NS	1
Plant Height	cm.	61	41	NS	1
Beak Length	mm.	8.90	6.05	0.0000	2.0
Vine Length	in.	29.10	17.48	0.0000	20
Seeds/pod	no.	5.15	4.95	0.5901	20
Pod Length	mm.	90.55	78.80	0.0000	20
Pod Depth	mm.	8.28	7.30	0.0000	20
Pod Width	mm.	10.23	10.00	0.1572	20
Seeds/lb.	no.	2,447	2,248	NS	1

2006 '01054' vs 'Seafarer' T-Test Results

Characteristic	Units	101054	\Seafarer'	Probability	Sample size
Maturity (90%)	days	93	87	NS	1
Flowering (50%)	days	52	42	NS	1
Plant Height	cm.	61	46	NS	1
Beak Length	mm.	10.63	6.25	0.0000	20
Seeds/pod	no.	5.90	4.50	0.0028	20
Pod Length	mm.	90.38	81.40	0.0004	20
Pod Depth	mm.	8.36	8.43	0.6238	20
Pod Width	mm.	10.41	10.60	0.4389	20
Seeds/lb.	no.	2,522	2,000	NS	1

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- Based on the above t-test results '01054' has a longer beak than 'Seafarer'. Averaging the means for 2004-2006 shows 01054's beak length to be 9.54 mm; compared to Seafarer's beak length at 5.80 mm.
- Based on the above t-test results '01054' has a longer pod than Seafarer. Averaging the means for 2005-2006 shows 01054's pod length to be 90.47 mm; compared to Seafarer's pod length at 80.10 mm.
- Based on the above t-test results '01054' has a longer vine length than Seafarer. Averaging the means for 2004-2005 shows 01054's vine length to be 32.05 in.; compared to Seafarer's vine length at 16.62 in.
- '01054' is a type IIb plant and 'Seafarer' is a type Ia plant.

2007 01054 vs Vista Beak Measurement T-Test

Data file: _54VSVISTA_

Title: 2007 NA 01054 vs NA Vista

Function: T-TEST

	14125 M	EDALIST		
SAMPLE	ONE: 01054 -	4122/08	SAMPLE TWO:	Vista

Variable 2 : Beak Length (mm) Variable 2 : Beak Length (mm)

Cases 1 through 20 Cases 21 through 40

Mean:10.00Mean:6.40Variance:1.68Variance:0.88Standard Deviation:1.30Standard Deviation:0.94

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value:	1.9048
Numerator degrees of freedom:	19
Denominator degrees of freedom:	 19
Probability:	0.1693

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared:	1.2842
Variance of the difference between the means:	0.1284
Standard Deviation of the difference:	0.3584
t Value:	10.0458
Degrees of freedom:	38
Probability of t:	0.0000

Result: Significant t - Reject the Hypothesis

Confidence limits for the difference of the means (for alpha=0.05): 3.600 plus or minus 0.725 (2.875 through 4.325)

2007 01054 vs Vista Seed Per Pod T-Test

Data file: 54VSVISTA

Title: 2007 NA 01054 vs NA Vista

'HMSMEDAUST'

Function: T-TEST LANG 4/2/07

SAMPLE	ONE:	01054	SAMPLE	TWO:	Vista
--------	------	-------	--------	------	-------

Variable 1: Seed Per Pod

Cases 1 through 20

Mean:

Variable 1: Seed Per Pod

Cases 21 through 40

Mean:

5.90

Mean:

Variance:

1.04

Variance:

1.31

Standard Deviation:

1.14

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value: 1.2525 Numerator degrees of freedom: 19

Denominator degrees of freedom: 19

Probability: 0.6285

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared:

Variance of the difference between the means:

Standard Deviation of the difference:

t Value:

Degrees of freedom:

Probability of t:

1.1737

0.1174

1.4795

382

0.1527

Result: Non-Significant t - Accept the Hypothesis

Confidence limits for the difference of the means (for alpha=0.05):

0.500 plus or minus 0.694 (-0.194 through 1.194)

Z 'HMS MClaus' 2007 DI054 vs Vista Pod Depth T-Test

Data file: 54VSVISTA

Title: 2007 NA 01054 vs NA Vista

Function: T-TEST

SAMPLE O	NE:	01054	SAMPLE	TWO:	Vista
----------	-----	-------	--------	------	-------

Variable 3 : Pod Dept	ch (mm)	Variable 3 : Pod Depth	(mm)
Cases 1 through 20		Cases 21 through 40	
Mean:	7.93	Mean:	7.73
Variance:	0.09	Variance:	0.12
Standard Deviation:	0.29	Standard Deviation:	0.34

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value:	1.3664
Numerator degrees of freedom:	19
Denominator degrees of freedom:	19
Probability:	0.5027

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Degrees of freedom: Probability of t:	38 0.0549
t Value:	1.9806
Standard Deviation of the difference:	0.1010
Variance of the difference between the means:	0.0102
Pooled s squared:	0.1020

Result: Non-Significant t - Accept the Hypothesis Confidence limits for the difference of the means (for alpha=0.05):

0.200 plus or minus 0.204 (-0.004 through 0.404)

60/52)4 HAJ 'HMS MEDALISTI 2007 01054 vs Vista Pod Length T-Test

Data file: 54VSVISTA

2007 NA 01054 vs NA Vista Title:

Function: T-TEST

SAMPLE ONE: 01054 SAMPLE TWO: Vista

Variable 4 : Pod Length (mm) Variable 4 : Pod Length (mm) Cases 21 through 40

Cases 1 through 20

Mean: 92.65 Mean: 88.75 Variance: 26.24 Variance: 48.20 Standard Deviation: 5.12 Standard Deviation: 6.94

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value: 1.8368 Numerator degrees of freedom: 19 Denominator degrees of freedom: 19 Probability: 0.1942

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2" ________

Pooled s squared: 37.2184 Variance of the difference between the means: 3.7218 Standard Deviation of the difference: 1.9292 t Value: 2.0216 Degrees of freedom: 38 Probability of t: 0.0503

Result: Non-Significant t - Accept the Hypothesis Confidence limits for the difference of the means (for

alpha=0.05):

3.900 plus or minus 3.905 (-0.005 through 7.805)

HMS MCDACUST 2007 01054 vs Vista Pod Width T-Test

Data file: 54VSVISTA

Title: 2007 NA 01054 vs NA Vista

Function: T-TEST

SAMPLE ONE: 01054 SAMPLE TWO: Vista

Variable 5 : Pod Width (mm)

Cases 1 through 20

Mean:

Variable 5 : Pod Width (mm)

Cases 21 through 40

Mean:

9.78

Variance: 0.11 Variance: 0.20 Standard Deviation: 0.32 Standard Deviation: 0.44

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value: 1.8688
Numerator degrees of freedom: 19
Denominator degrees of freedom: 19
Probability: 0.1821

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared:

Variance of the difference between the means:

Standard Deviation of the difference:

t Value:

Degrees of freedom:

Probability of t:

0.1510
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151
0.0151

Result: Non-Significant t - Accept the Hypothesis

0.225 plus or minus 0.249 (-0.024 through 0.474)

LAW 4/22/08 1/1/1/15 MCDAUST' 2008 01054 vs Vista Seed Per Pod T-Test

Data file: 080154

Title: 2008 NA 01054 vs NA Vista

Function: T-TEST

SAMPLE ONE: 01054 SAMPLE TWO: Vis

Variable 1 : Seed Per	Pod	Variable 1 : Seed Per	Pod
Cases 1 through 20		Cases 21 through 40	
Mean:	5.35	Mean:	5.55
Variance:	0.66	Variance:	0.47
Standard Deviation:	0.81	Standard Deviation:	0.69

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value:	1.4022
Numerator degrees of freedom:	19
Denominator degrees of freedom:	19
Probability:	0.4682

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared:	0.5658
Variance of the difference between the means:	0.0566
Standard Deviation of the difference:	0.2379
t Value:	-0.8408
Degrees of freedom:	38
Probability of t:	0.4057

Result: Non-Significant t - Accept the Hypothesis

Confidence limits for the difference of the means (for alpha=0.05):

0.200 plus or minus 0.482 (-0.282 through 0.682)

LAGU 4/22/08 1HMS MEDAUST 1 2008 01054 VS Vist

2008 01054 vs Vista Beak Measurement T-Test

Data file: 080154

Title: 2008 NA 01054 vs NA Vista

Function: T-TEST

SAMPLE	ONE:	01054	SAMPLE	TWO:	Vista

Variable 2 : Beak (mm) Variable 2 : Beak (mm) Cases 1 through 20 Cases 21 through 40 Mean: 11.10 Mean: 7.18 Variance: 1.28 Variance: 3.09 Standard Deviation: 1.13 Standard Deviation: 1.76

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value: 2.4131
Numerator degrees of freedom: 19
Denominator degrees of freedom: 19
Probability: 0.0621

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared:

Variance of the difference between the means:

Standard Deviation of the difference:

t Value:

Degrees of freedom:

Probability of t:

2.1826

0.2183

8.4015

8.4015

Result: Significant t - Reject the Hypothesis

3.925 plus or minus 0.946 (2.979 through 4.871)

HMS MCDALIST, 2008 01054 vs Vista Pod Depth T-Test

Data file: 080154

Title: 2008 NA 01054 vs NA Vista

Function: T-TEST

SAMPLE ONE: 01054	SAMPLE	TWO:	Vista
-------------------	--------	------	-------

Variable 3 : Pod Depth (mm) Variable 3 : Pod Depth (mm)

Cases 1 through 20 Cases 21 through 40 Mean: 7.74 Mean: 8.19

Variance: 0.04 Variance: 0.08 Standard Deviation: 0.20 Standard Deviation: 0.29

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value: 2.0904

Numerator degrees of freedom: 19
Denominator degrees of freedom: 19

Probability: 0.1167

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared:

Variance of the difference between the means:

Standard Deviation of the difference:

t Value:

Degrees of freedom:

Probability of t:

0.0606

0.0079

-5.7340

38

0.0000

Result: Significant t - Reject the Hypothesis

Confidence limits for the difference of the means (for alpha=0.05):

0.447 plus or minus 0.158 (0.289 through 0.604)

2008 01054 vs Vista Pod Length T-Test

Data file: 080154

Title: 2008 NA 01054 vs NA Vista

Function: T-TEST

SAMPLE ONE: 01054 SAMPLE TWO: Vista

Variable 4: Pod Length (mm)

Cases 1 through 20

Mean:

87.45

Variance:

18.58

Variance:

18.58

Variance:

Standard Deviation:

Variable 4: Pod Length (mm)

Cases 21 through 40

Mean:

87.10

Variance:

16.41

Standard Deviation:

4.05

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

F Value: 1.1320 Numerator degrees of freedom: 19 Denominator degrees of freedom: 19 Probability: 0.7898

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared:	17.4934
Variance of the difference between the means:	1.7493
Standard Deviation of the difference:	1.3226
t Value:	0.2646
Degrees of freedom:	38
Probability of t:	0.7927

Result: Non-Significant t - Accept the Hypothesis

Confidence limits for the difference of the means (for alpha=0.05):

0.350 plus or minus 2.678 (-2.328 through 3.028)

200700330

LAM 4/22/08 1 HMS MEDAUST' 2008 01054 vs Vista Pod Width T-Test

Data file: 080154

Standard Deviation:

Title: 2008 NA 01054 vs NA Vista

Function: T-TEST

SAMPLE ONE: 01054 SAMPLE TWO: Vista

Variable 5: Pod Width (mm)

Cases 1 through 20

Mean:

9.98

Variance:

0.17

Variable 5: Pod Width (mm)

Cases 21 through 40

Mean:

10.03

Variance:

0.26

Standard Deviation: 0.51

F-TEST FOR THE HYPOTHESIS "VARIANCE 1 = VARIANCE 2"

0.41

F Value: 1.5766 Numerator degrees of freedom: 19

Denominator degrees of freedom: 19

Probability: 0.3295

Result: Non-Significant F - Accept the Hypothesis

T-TEST FOR THE HYPOTHESIS "MEAN 1 = MEAN 2"

Pooled s squared:

Variance of the difference between the means:

Standard Deviation of the difference:

t Value:

Degrees of freedom:

Probability of t:

0.2146
0.0215
0.1465
0.1465
0.7398

Result: Non-Significant t - Accept the Hypothesis

Confidence limits for the difference of the means (for alpha=0.05):

0.049 plus or minus 0.297 (-0.248 through 0.346)



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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY

		riiaseolus vulgaris i	/
NAME OF APPLICANT (S) Cooperative Elevator Co.		ERIMENTAL DESIGNATION 01054	VARIETY NAME 'HMS MCDALLST' 4/22/03
ADDRESS (Street and No. or RD No., City, State, Zip Code, and 7211 E. Michigan Ave. Pigeon, MI 48755	Country)		PVPO NUMBER # 2 0 0 7 0 0 3 3 0
PLEASE READ ALL INSTRUCTIONS CAREFULLY Provide data for all characters unless indicated as " Measured data should be the mean of an appropriat may be used to determine plant color. Designate the COLOR SYSTEM USED: Royal Horticulture Society	optional". Place number of well space	ed (15-20 cm) plants. The Roya low.	ters or numerical values that best describe this variety. Il Horticultural Society or any recognized color standard TO EVALUATE THIS VARIETY:
1. MARKET CLASS: O 1		2 = MATURITY: 2 1 = Early (80-90 days) 9 6 Days from Plant United Base Telemonth Days from Plant United Ba	2 = Medium (90-100 Days) 3 = Late (> 100 Days) anting to Harvest Maturity iits from Planting to Harvest Maturity (Optional). Specify imperature Used: anting to Harvest Maturity of Check Variety (Use Check of Market Class Shown in Item 1)
TYPE 1 = Ia Bush-determinate, Strong and Erect Ster 2 = Ib Bush-determinate, Weak Stem and Bran 3 = IIa Erect Growth Habit-indeterminate, Guid or not developed 1 = Ib Erect Growth Habit-indeterminate, Guid with no Ability to Climb 5 = IIIa Vine-indeterminate, Short Guides with 6 6 = IIIb Vine-indeterminate, Long Guides with 7 = IVa Indeterminate Climbing, Pods Distribut Plant	ches les (Runners) short les Medium to Long, no ability to Climb Ability to Climb	4 1 Average Heig (Use Same 2 Pod Position: 1 = 2 = 3 =	tht of Mature Plant, in cm. tht of Check Variety, in cm. e Check as Above) Low (Lower Pods Touching Soil Surface) High (Lower Pods not Touching Soil Surface) Scattered (Not Concentrated High or Low) chine Harvest: 1 = Adapted 2 = Not Adapted e: 1 = Good 2 = Fair 3 = Poor

4. LEAFLET MORPHOLOGY: (Use terminal Leaflet of a Fully Expanded Trifoliolate)



1 = Smooth

2 = Wrinkled



1 = Duli



3 = Semiglossy

4 = Variable

Shape:

1 = Ovate



2 = Lanceolate

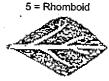
3



4 = Cordate

1





Apex of Leaflet:







3 = Cuspidate





4 = Cuneate



5 = Attentuate

Leaflet: 1

Base of



1 = Obtuse



3 = Cordate







5. FLOWER COLOR AND DAYS TO BLOOM:

Color of Standard:

1 = White 4 = Blue

2 = Cream 5 = Purple

3 = Pink

Color of Keel:

1 = White 4 = Blue

2 = Cream 5 = Purple

3 = Pink

Color of Wings:

1 = White 4 = Blue

2 = Cream 5 = Purple

3 = Pink

Days to 50% Bloom

6. POD MORPHOLOGY: (Green Pod Morphology Optional)

Green Mature

1 1 3 4

Color Pattern:

1 = Solid

2 = Striped

3 = Blotched 4 = Mottled

5 = Other

5 = Tan

2

Primary Color:

1 = Purple

2 = Red

3 = Green

4 = Yellow

5 = Tan

6 = Brown

7 = Other

Color Modifier: Secondary Color:

1 = Light 1 = Purple 2 = Light Medium

3 = Medium

4 = Medium Dark 5 = Dark

Cross Section Shape:

2 = Red

3 = Green

4 = Yellow

6 = Brown

7 = Other

2

1 = Flat

2 = Pear

3 = Round

4 = Figure Eight





Pod Curvature

1 = Straight

2 = Slightly Curved



Pod Beak Orientation:

1 = Straight

2 = Curved Upward

3 = Curved Downward

4 = Variable Average Beak Length, in cm. _.954

Constrictions:

1 = None

2 = Slight

3 = Deep

Average Number of Seeds per Pod

12. KNOWN PHYSIOLOGICAL STRESS REACTION:

2 = Resistant

4 = Avoidance

1 = Susceptible

3 = Tolerant

Heat

Air Pollution

Drought

13. COMMENTS:

Anthracnose resistance to race 7 and susceptibility to race 73 were shown in our test with Jim Kelly at Michigan State University.

01054 carries the "I" gene which confers resistance to Bean Common Mosaic Virus (BCMV), but is sensitive to the temperature insensitive necrosis inducing strains of BCMV like NL3 and NL8.

Dry Edible Navy Bean

'HMS MEDALIST' 101054' WILL YIZLOS

Exhibit D

Botanical Description

Navy '01054' is a medium season variety that flowers in 53 days and matures in 96 days in Idaho. It is an upright medium profile variety (type IIb, CIAT classification) holding pods off the ground.

The leaves are wrinkled, semiglossy, ovate with acuminate apices, and mostly obtuse leaf bases.

Flowers are white and pods are green which turn yellow at maturity.

The seeds average 18 g per 100 seeds.

'01054' has an average of 5.5 seeds per pod

'01054' has the "I" gene which confers resistance to Bean Common Mosaic Virus (BCMV), but is sensitive to the temperature insensitive necrosis inducing strains of BCMV like NL3 and NL8.

When compared to 'Vista' in Michigan the following observations have been made.

- Seed size and appearance is similar to Vista.
- Depending on the season and location '01054' will mature approximately the same as Vista.
- '01054' has shown a 96 lbs. yield advantage over Vista from trials in the following Michigan counties: Huron, Bay, Gratiot, Tuscola, Montcalm, and Sanilac.

'01054' has shown broad adaptability in the MINDAK (Minnesota, North Dakota, South Dakota, and Manitoba) region, Michigan, Idaho, Nebraska, and Washington. Adaptability trials are planned for other parts of the United States and Canada.

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U.S. DÉPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to det	
EXHIBIT E	certificate is to be issued (7 U.S.C. 2	
STATEMENT OF THE BASIS OF OWNERSHIP	confidential until the certificate is issu	led (7 U.S.C. 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Cooperative Elevator Co.	01054	HATS MEDALIST, 4
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7211 E. Michigan Ave.	(989) 453-4500	(989) 453-3942
Pigeon, MI 48755	7. PVPO NUMBER	
		#20070033
8. Does the applicant own all rights to the variety? Mark an "X" in the	e appropriate block. If no, please expla	in. YES NO
9. Is the applicant (individual or company) a U.S. national or a U.S. b	ased company? If no, give name of c	ountry. YES NO
	<u> </u>	
10. Is the applicant the original owner? YES	NO If no, please answer <u>one</u>	of the following:
		•
a. If the original rights to variety were owned by individual(s), is (
YES	NO If no, give name of count	try
b. If the original rights to variety were owned by a company(ies),	is (are) the original owner(s) a U.S. ba	sed company?
YES	NO If no, give name of countr	
and the second		•
11. Additional explanation on ownership (Trace ownership from original	nal breeder to current owner. Use the re	everse for extra space if needed):
Dr. Popald Shallanhargar, plant broader, daing business of Bustiness	40 Tmg 1500	
Dr. Ronald Shellenberger, plant breeder, doing business as ProVir development service on navy beans to Cooperative Elevator Com	ta, Inc. has a contractual agreement to property of the contractive Elevator Company	provide a plant breeding and variety nave consulting fees and expenses to
ProVita, Inc. for which Cooperative Elevator Company retains ow	vnership of all navy bean varieties deve	eloped under the agreement.
		•
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licens	ees) who meet the following criteria:	
1. If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of	erson must be a U.S. national, national of the U.S. for the same genus and speci	of a UPOV member country, or es.
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.	red the original breeder(s), the company country which affords similar protection t	y must be U.S. based, owned by to nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the o	original owner and the applicant must m	eet one of the above criteria.
The original breeder/owner may be the individual or company who direct for definitions.	ected the final breeding. See Section 4	11(a)(2) of the Plant Variety Protection
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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

DECLARATION REGARDING DEPOSIT		
NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION
Cooperative Elevator Co.	7211 E. Michigan Ave. Pigeon, MI 48755	01054
		VARIETY NAME 1195 MANGEST 467108
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL OSE ONLY
Ron Shellenberger ProVita, Inc.	P.O. Box 628 Kuna, ID 83634	#200700330

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature

Date